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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,428	10/16/2003	Hee Jeong Kim	2080-3-186	7974

7590 04/01/2005

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EXAMINER


NGUYEN, TAN QUANG

ART UNIT	PAPER NUMBER
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3661

DATE MAILED: 04/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

 Office Action Summary	Application No.	Applicant(s)	
	10/687,428	KIM, HEE JEONG	
	Examiner	Art Unit	
	TAN Q NGUYEN	3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAIL ACTION

Notice to Applicant(s)

1. This application has been examined. Claims 1-19 are pending.
2. Receipt is acknowledged of papers submitted under 35 U.S.C. § 119, which have been placed of record in the file.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4 and 6-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Kishi et al. (5,687,083).
5. As per claim 10, Kishi et al. disclose the invention as claimed which includes means for checking an intersection network to create a predetermined intersection based on a vehicle position information (see figure 1 and column 4, lines 50-54), means for creating a turn guide arrow to be displayed on the intersection, and means for simultaneously displaying the intersection and the turn guide arrow created thereon (see figure 3 and the related text).

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6. As per claim 11, Kishi et al. also disclose that the system includes means for calculating the angles of the approaching road and the other departing roads (using the predetermined set direction as the approaching road), and means for vertically placing the approaching road and the other departing roads on the display (see at least figures 3 and 5).

7. As per claims 14-17, the limitations are inherently disclosed in the Kishi et al. reference in at least figures 1, 3, 9, 12(a) to 12(e).

8. Claims 1-4 and 6-9 are method claims corresponding to apparatus claims 10-17. Therefore, claims 1-4 and 6-9 are rejected for the same rationales set forth for claims 10-17.

9. As per claim 18, the limitations of this claim have been noted in the rejections above. They are therefore considered rejected as set forth above.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 5 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kishi et al. as applied to the claims above, and further in view of Hulverscheidt et al. (6,762,696).

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12. Kishi et al. disclosed the claimed invention as discussed above except for the turn guide arrow is arranged with a lower arrow, a center circle, an upper body and a head, and the width is adjustable. However, Hulverscheidt et al. suggest a routing display for navigation system in which a turn guide arrow is displayed which has a lower body, a circle, an upper part and a head as shown in at least figures 3a-3c.

Hulverscheidt et al. further suggest that the width of the arrow turn is adjustable with color change (see at least figures 3a-3c and the related text). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate such teaching of Hulverscheidt et al. into the system of Kishi et al. in order to provide the system with the enhanced capability of improving the visual impression display for the user about the approaching intersection with more detail.

Conclusion

13. All claims are rejected.

14. The following references are cited as being of general interest: Matsukawa et al. (4,937,570), Shimoura et al. (5,613,055), Kuama (6,473,693), McGovern (6,643,585), De Jong (5,115,398), Fujii et al. (5,402,120), and Adachi (6,662,101).

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Q. Nguyen, whose telephone number is (703) 305-9755. The examiner can normally be reached on Monday-Thursday from 5:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

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or faxed to the Official Fax Center:

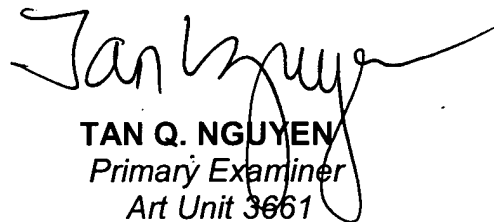
(703) 872-9306, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451 Crystal Drive, Arlington. VA., Seventh Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/tqn
March 28, 2005


TAN Q. NGUYEN
Primary Examiner
Art Unit 3661